



Program Listing for Lathrop

Diversion Program Name

*Prior to SRRE	SRRE Selected	1997 Status	1998 Status
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Source Reduction

Xeriscaping/Grasscycling	Yes	Yes	X	X
Backyard and On-Site Composting/Mulching	No	Yes		
Business Waste Reduction Program	Yes	Yes	X	X
Procurement	No	Yes	X	X
Government Source Reduction Programs	No	Yes	X	X

Recycling

Residential Curbside	Yes	Yes	X	X
Residential Drop-Off	No	Yes	X	X
Commercial On-Site Pickup	Yes	Yes	X	X
Commercial Self-Haul	No	Yes	X	X
Special Collection Seasonal (regular)	Yes	Yes	X	X

Composting

Residential Curbside Greenwaste Collection	No	Yes	X	X
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Special Waste Materials

Tires	Yes	Yes	X	X
White Goods	Yes	Yes	X	X
Scrap Metal	No	Yes	X	X
Wood Waste	Yes	Yes	X	X
Concrete/Asphalt/Rubble	Yes	Yes	X	X

X = indicates programs being implemented

Any blank status code above could be one or more of the following:

- Dropped
- Selected and Not Implemented
- Planned Future

* Existing prior to SRRE (Source Reduction
Recycling Element)



Program Listing for Lathrop

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August 16,2000

Diversion Program Name	*Prior to SRRE	SRRE Selected	1997 Status	1998 Status
Public Education				
Electronic (radio ,TV, web, hotlines)	No	Yes		
Print (brochures, flyers, guides, news articles)	No	Yes	X	X
Outreach (tech assistance, presentations, awards, fairs, field trips)	No	Yes	X	X
Schools (education and curriculum)	No	Yes	X	X
Policy Incentives				
Product and Landfill Bans	No	Yes		
Economic Incentives	No	Yes	X	X
Ordinances	No	Yes		X
Facility Recovery				
MRF	No	Yes		
Composting Facility	No	Yes		
Alternative Daily Cover	No	Yes	X	X

X = indicates programs being implemented

Any blank status code above could be one or more of the following:

- Dropped
- Selected and Not Implemented
- Planned Future

* Existing prior to SRRE (Source Reduction
Recycling Element)



Jurisdictional SRRE Program Summary
Household Hazardous Waste (HHW)
Selected Year(s): 1997, 1998

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Jurisdiction	Year	HH- PMF	HH- MPC	HH- CSC	HH- WSE	HH- EDP	HH- OTH
Lathrop	1997		X			X	
	1998		X			X	

Legend:	HH-PMF	Permanent Facility
	HH-MPC	Mobile or Periodic Collection
	HH-CSC	Curbside Collection
	HH-WSE	Waste Exchange
	HH-EDP	Education Program
	HH-OTH	Other HHW

**City of Lathrop
1998 New Base Year Proposal
based on Diversion Study Results**

June 2000

**Prepared for the City of Lathrop
by Christine Vitalis
(925) 833-7264
cvitalis@pacbell.net**

City of Lathrop

Public Works Department
16775 Howland Road
Lathrop, California 95330
(209) 858-2860, Ext. 328
Fax (209) 858-1023



June 26, 2000

California Integrated Waste Management Board
Office of Local Assistance, MS 8
8800 Cal Center Drive
Sacramento, CA 95826

Dear Theresa:

Enclosed is the City of Lathrop's 1998 New Base Year Proposal based on Diversion Study Results. Please review and notify Chris Vitalis and myself when the Board will schedule this for review and acceptance.

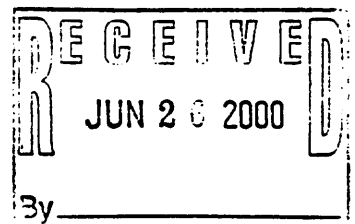
If you have any questions you can contact me at (209) 858-2860, Ext. 328 or Chris at (925) 833-7264. Thank you for your consideration.

Sincerely,

Lynn Breitenbucher
Management Analyst II

Enclosure

cc: Christine Vitalis, Consultant



Base Year Modification Request Certification

CIWMB 628 (NEW 7/99)

request a correction to or substitution for a previously approved base-year amount used in calculating the diversion rate for your jurisdiction, please complete and sign this form and return it to your Office of Local Assistance (OLA) representative at the address below, along with any additional information requested by OLA staff. When all documentation has been received, your OLA representative will work with you to prepare for your appearance before the Board. If you have any questions about this process, please call (916) 255-2555 to be connected to your OLA representative.

Mail completed documents to:

California Integrated Waste Management Board
Office of Local Assistance, MS 8
8800 Cal Center Drive
Sacramento CA 95826
ATTN: THERESA BOBER


General Instructions:

Please select the **ONE** choice below that best explains your request to the Board, and complete the appropriate sections. All respondents must complete Section I and either Section II A or II B, as noted.

- ☐ 1. Correct our existing Board-approved base-year generation (disposal or diversion) tonnage. (Please complete Section I and Section II A.)
- ☐ 2. Use a recent generation-based study to substitute for our existing Board-approved base-year generation amount, but not officially change our existing Board-approved base year. (Please complete Section I and Section II B.)
- ☒ 3. Use a recent generation-based study to officially change our Board-approved existing base year to a new base year. (Please complete Section I and Section II B.)

Section I: Jurisdiction Information and Certification*All respondents must complete this section.*

I certify under penalty of perjury that the information in this document is true and correct to the best of my knowledge, and that I am authorized to make this certification on behalf of:

Jurisdiction Name CITY OF LATHROP		County SAN JOAQUIN	
Authorized Signature 		Title MANAGEMENT ANALYST/RECYCLING COORD.	
Type/Print Name of Person Signing LYNN BREITENBUCHER	Date 06-26-00	Phone (209) 858-2860, Ext. 328	
Person Completing This Form (please print or type) Christine Vitalis	Title Consultant	Phone (925) 833-7264	
Mailing Address 16775 HOWLAND ROAD	City LATHROP	State CA	ZIP Code 95330

Section II A: Information for Correction of Existing Base-Year Tonnage

Respondents who chose option 1 on the first page must complete this section.

Attach additional sheets if necessary—please reference each response to the appropriate cell number (e.g., A6).

A1. Current Board-approved base year:

A2. Increased or decreased diversion tons requested:

A3. Increased or decreased disposal tons requested:

A4. Proposed total base-year generation tons requested (add figures from A2 and A3):

A5. Document your proposed base-year modification method:

- ☐ Board-approved method from the March 26, 1997 "Agenda Item 32" list. Name of method: _____
- ☐ Board-approved method from November 5, 1998 "Agenda Item 8" ["LA Fix" method].
- ☐ Proposed method is not currently Board-approved. (Explain the method in detail below.)

- If you need a copy of either agenda item, contact your Office of Local Assistance representative.

A6. If additional diversion tonnage is requested in Box A2, choose one:

- ☐ All diversion tonnage claimed is from a 100 percent audit (full enumeration) of diversion programs.
- ☐ Some diversion data were estimated or extrapolated from representative sampling. (Explain the amount and method in detail below.)

A7. Describe the diversion data records that support your claim and are available for Board audit. Include type of record and location; for example, weigh tickets from transfer station.

Diversion Program	Tons	Type of Record	Location of Data

A8. If additional disposal tonnage is requested in Box A3, choose one:

- ☐ All tons claimed are from a 100 percent audit (full enumeration) of hauler, self-haul, or other tonnage.
- ☐ Some disposal data were estimated or extrapolated from representative sampling. (Explain the amount and method in detail.)

A9. In the table below, list the disposal data records that support your claim and are available for Board audit. Include type of record and location; for example, weigh tickets from transfer station.

Source of Additional Disposal	Tons	Type of Record	Location of Data

A10. Enter your diversion rates in the table below.

	1995	1996
Current calculated diversion rate:	a. %	b. %
Proposed diversion rate:	c. %	d. %

A11. If the proposed base-year generation tonnage correction results in an increase in either your 1995 or 1996 waste diversion rate, please explain how your diversion rate is consistent with your diversion program implementation efforts.

A12. If the difference between the proposed 1995 and 1996 diversion rates in A10c and A10d is greater than 5 percentage points, please explain the reasons for the difference in the rates. (For example: program implementation or data errors.)

Section II B: Information for New Generation-Based Study for Existing or New Base Year*Respondents who chose option 2 or 3 on the first page must complete this section.**Attach additional sheets if necessary—please reference each response to the appropriate cell number (e.g., B4).*

B1. Current Board-approved base-year:

1990

B2. Proposed new generation-based study year:

1998

B3. Is the proposed generation study year representative of average annual jurisdiction disposal and diversion patterns? ☒ Yes ☐ No

B4. Please select the ONE choice below that best explains your diversion data.

- ☒ All diversion tonnage claimed is from a 100 percent audit (full enumeration) of all available diversion programs.
- ☐ Some diversion data were estimated or extrapolated from representative sampling. (Explain amount and method in detail below.)

B5. In the table below, list the diversion data records that support your claim and are available for Board audit. Include type of record and location; for example, weigh tickets from transfer station.

Diversion Program	Tons	Type of Record	Location of Data
See Attached sheet.			

B6. Please select the ONE choice below that best explains your disposal data and complete the required tables.

- ☐ a. All tons claimed are from the Board's Disposal Reporting System (1995 and after). (No explanation required. Skip to B9.)
- ☐ b. All tons claimed are from a 100 percent audit of hauler and self-haul tonnage (pre-1995). (Please complete B7 and then skip to B9.)
- ☒ c. Some Disposal Reporting System data were corrected. (Please skip to B8.)

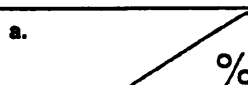

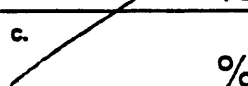
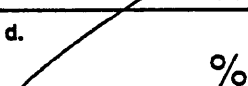
B7. If you chose "b" in B6, list the disposal data records that support your claim and are available for Board audit in the table below. Include type of record and location; for example, weigh tickets from transfer station.

Source of Disposal	Tons	Type of Record	Location of Data

B8. If you chose "c" in B6, list the disposal data records that support your claim and are available for Board audit in the table below. Explain tonnage amount, correction method used, and correct owner of disputed tonnage in detail.

Source of Disposal	Tons	Correction Method Used	Correct Owner
See Attached sheet.			

B9. Enter your diversion rates in the table below.

	1995	1996	Other Year: (please specify) 1998
Current calculated diversion rate:	a.  %	b.  %	
Proposed diversion rate:	c.  %	d.  %	e. 73.1 %

B10. If the proposed base-year generation tonnage correction results in an increase in either your 1995 or 1996 waste diversion rate, please explain how the diversion rate is consistent with your diversion implementation efforts.

Not Applicable per Theresa Bober

B11. If the difference between the proposed diversion rates in B9c and B9d or B9d and B9e is greater than 5 percentage points, please explain the reasons for the difference in the rates. (For example: program implementation or data errors.)

IN THE ORIGINAL 1990 BASE YEAR, IT APPEARS THAT DIVERSION TONNAGE WAS GROSSLY UNDERESTIMATED. MANY SOURCE REDUCTION, REUSE, + RECYCLING ACTIVITIES IN THE COMMERCIAL/ INDUSTRIAL SECTOR WERE NOT TAKEN INTO ACCOUNT AND INCLUDED IN BASE-YEAR DIVERSION NUMBERS. IN 1990, DIVERSION ACTIVITIES RESULTED IN DIVERTED WASTE OF 1,102 TONS. IN THE RECENTLY COMPLETED DIVERSION STUDY

AND NEW BASE YEAR PROPOSAL FOR 1998, DIVERSION ACTIVITIES.

CITY OF LATHROP BASE YEAR MODIFICATION REQUEST CERTIFICATION			
SECTION II B5			
Diversion Program	Tons	Type of Record	Location of Data
Residential Curbside Recycling	1,727.30	Quarterly recycled quantity reports from Lathrop Sunrise Sanitation Corp.	Provided as supporting documentation with new base year proposal
Lathrop Recycling Center	81.00	Received weight information provided by the Dept. of Conservation	Provided as supporting documentation with new base year proposal
Garage Sales	57.69	Calculations based on local newspaper ads for garage sales in 1998	Provided as supporting documentation with new base year proposal
Recyclables recovered from self-haul	507.60	Summary report from San Joaquin County showing allocations of recyclables recovered to all jurisdictions in the county	Provided as supporting documentation with new base year proposal
Compostables recovered from self-haul	116.20	Summary report from San Joaquin County showing allocations of compostables recovered to all jurisdictions in the county	Provided as supporting documentation with new base year proposal
Composting	4.32	Verbal info provided by CIMA's Landscape service and composter BFI. Information provided and contact person documented in records.	City offices
Grasscycling	360.34	Acreage provided verbally by City, school maintenance dept, and one business. Information provided and contact person documented in records. Computations for conversion to tons diverted done by consultant.	City offices
Food diverted to a hog farm	13,260.00	Signed letter from the owner of American Hog Farms verifying quantity received	City offices
Glass recycling	12,103.00	Signed letter from Strategic Materials verifying quantity recycled	City offices
Food donated to food banks	914.94	Reports provided by local food banks with pounds of food donated	City offices
Food donated to animal shelters	110.35	Internal company document, a damaged tracking system report, provides quantity of pet food donated. Computations for conversion to tons done by consultant.	City offices
Source reduction - conversion from wood pallets to plastic pallets	2,875.60	Quantities of pallet usage provided by business. Computations for conversion to tons source reduced done by consultant.	City offices
Steel recycling by three building manufacturers	416.47	Detailed collection reports from Universal Steel Recycling	City offices

Wood recycling by two building manufacturers	762.54	Detailed collection report from Universal Steel Recycling and a statement from Super Pallet	City offices
Paper recycling	296.77	Summary reports provided by Shred-It, Meyerhauser, and Della Container	City offices
Cardboard recycling	959.31	Summary reports provided by Della Container, Stockton Scavenger, Smurfit-Stone, and the Sutta Company	City offices
Cardboard recycling	772.00	Quantities provided verbally by recyclers - Recycled Fibers Div. of the Newark Group and Richard Cleek. Information provided and contact person documented in records.	City offices
Plastics recycling	30.16	Summary reports provided by Della Container and the Sutta Company	City offices
Used cooking oil	14.27	Quantities provided verbally by either fast food restaurant contact or rendering companies involved (Daring International, One More Time, and Modesto Talo). Information provided and contact person documented in records.	City offices
Reuse of drums and plastic totes	12.65	Verbal information provided by suppliers on the return of their containers and info also provided by drum reconditioners. Information provided and contact person documented in records.	City offices
Wood pallets collected for repair and reuse	439.96	Written statements from Ripon Pallet and Medina Wood Products with number of pallets. Computations for conversion to tons done by consultant.	City offices
Beverage container recycling	1.11	Quantities recycled provided verbally by three businesses and the City. Beverage containers taken to Manteca Recycling and Modesto Junk.	City offices
Other source reduction, reuse, and recycling efforts at businesses (various materials)	477.08	Quantities provided verbally by businesses during waste reduction and recycling surveys. Information provided and contact person documented in records.	City offices
Other recycling and reuse efforts - metal, pallets, tires	124.33	Quantities provided verbally by recyclers. Information provided and contact person documented in records.	City offices
Total Diversion Tonnage	36,424.99		

**CITY OF LATHROP
BASE YEAR MODIFICATION REQUEST CERTIFICATION
SECTION II B8**

The disposal tonnage being used in the new base year generation study, 13,401.7 tons, is the disposal tonnage provided to the City of Lathrop by San Joaquin County. This tonnage figure was provided to the City of Lathrop in July 1999 and included some revisions to previously provided numbers. The CIWMB's Disposal Reporting System has a different tonnage figure, 13,243.7 tons, because it is based on numbers provided earlier by San Joaquin County (by the May 15, 1999 deadline). After the May 15, 1999 deadline, San Joaquin County received information that made it necessary to make corrections to the disposal tonnage numbers. Attached is a letter dated February 29, 2000 from Tom Horton, the Integrated Waste Manager of San Joaquin County, to Theresa Bober of the CIWMB, explaining the nature of the correction and why it was necessary. Also attached to the letter are several supporting spreadsheets and tables.

The difference between the CIWMB's Disposal Reporting System and the City of Lathrop's disposal tonnage is 158 tons. If the CIWMB chooses not to accept Tom Horton's explanation and the revised disposal numbers, the City of Lathrop will accept the disposal tonnage numbers in the CIWMB's Disposal Reporting System.

Attachments:

Letter dated Feb. 29, 2000 from Tom Horton, San Joaquin County, to Theresa Bober, CIWMB
Letter dated July 27, 1999 from Tom Horton to Lynn Breitenbucher, City of Lathrop

Board staff used DRS

★ DRS = 13,244

Forward Inc - 172

13,072 = actual disposal used.

CITY OF LATHROP			
COMPOSTING & GRASSCYCLING - 1998			
Type of Business		Composting	Grasscycling
Recycling assessments:			
Supply Depot			
Food warehouse and distribution			83.85
Manufacturer			
Building manufacturer			
Food manufacturing and distribution			
Manufacturer			
Manufacturer			
Food warehouse and distribution			
Packaging and distribution			
Building manufacturer			
Building manufacturer			124.03
City offices & waste water treatment plant			
Fast food			
Warehouse and distribution			
Food manufacturing and distribution			
Food warehouse and distribution			
Fast food			
Fast food			
Fast food			
Packaging and distribution			
Transportation company			
Gas station/convenience store			
No on-site assessment:			
Building manufacturer			
Gas station			
Printing company			
Grocery store			
Restaurant			
Collection service			
Elementary schools (2)			152.48
Building manufacturer			
Utility station			
Landscaping maintenance only:			
Industrial Park		4.32	
Total Tons Composted & Grasscycled		4.32	360.34

CITY OF LATHROP RESTRICTED WASTE - 1998			
Type of Business	Excluded Restricted Waste Total Tons	Restricted materials	Included Restricted Waste Total Tons
Recycling assessments:			
Supply Depot	681.00	scrap metal	
Food warehouse and distribution	30.00	scrap metal	130.79
Manufacturer	8.00	scrap metal	steel - new program 1997
Food manufacturing and distribution	109.99	tin, concrete	
Manufacturer			
Food warehouse and distribution	550.00	scrap metal	
Packaging and distribution			
Building manufacturer	151.10	concrete, asphalt, scrap metal	
Building manufacturer			
City offices & waste water treatment plant			
Fast food			37.65
Warehouse and distribution			scrap metal - new program 1998
Food manufacturing and distribution			
Food warehouse and distribution			
Fast food			
Fast food			
Fast food			
Packaging and distribution			
Transportation company			
Gas station/convenience store			
No on-site assessment:			140.98
Building manufacturer			steel - new program 1997
Gas station			
Printing company			
Grocery store			
Restaurant			
Collection service			
Elementary schools (2)			
Building manufacturer			144.70
Utility station			steel - new program 1998
Landscaping maintenance only:			
Industrial Park	1,530.09		454.12
Total Tons Restricted Waste			

During the diversion study, it was found that 1,984.21 tons of materials considered to be restricted waste had been recycled. This restricted waste consisted of concrete, asphalt, and scrap metals. Following CIWMB guidelines, restricted wastes in the amount of 1,530.09 tons were excluded from the new base year because criteria for inclusion could not be met. These materials included scrap metal, concrete and asphalt. There were some restricted wastes, all scrap metal, in the amount of 454.12 tons, that were included in the new base year because they were considered "new" programs. They were considered new programs because the scrap metal was recycled by four new businesses that started operations in the City of Lathrop in 1996, 1997, and 1998.

CITY OF LATHROP RECYCLING - 1998														
Type of Business	Paper	Cardboard	Aluminum cans	Glass bottles	Glass	Plastic bottles	Plastic film	Foam	Metal	Steel	Wood	Plastic pallets	Used cooking oil	
Recycling assessments:														
Supply Depot	100.00	204.00												
Food warehouse and distribution	120.00	260.00			12,103.00							9.00		
Manufacturer	30.00	25.00								130.79	77.12			
Building manufacturer		125.71					10.16							
Food manufacturing and distribution	4.00	17.88	0.23	0.18		0.01								
Manufacturer	12.70	90.38	0.38					50.00						
Food warehouse and distribution	15.00	40.00					8.00							
Packaging and distribution		776.00					12.00							
Building manufacturer														
Building manufacturer											685.42			
City offices & waste water treatment plant	3.00		0.075			0.025							4.75	
Fast food		8.00												
Warehouse and distribution		110.00	0.21						37.65					
Food manufacturing and distribution		25.00												
Food warehouse and distribution		5.00											9.02	
Fast food		5.00											0.50	
Fast food		8.00												
Packaging and distribution														
Transportation company		15.00												
Gas station/convenience store		3.14												
No on-site assessment:														
Building manufacturer										140.98				
Gas station		0.50												
Printing company	0.50													
Grocery store		6.00												
Restaurant		8.00												
Collection service	6.70													
Elementary schools (2)	4.87													
Building manufacturer										144.70				
Utility station		1.84												
Landscaping maintenance only:														
Industrial Park														
Total Tons Recycled	296.77	1,734.45	0.895	0.18	12,103.00	0.035	30.16	50.00	37.65	416.47	762.54	9.00	14.27	

CITY OF LATHROP SOURCE REDUCTION & REUSE - 1998												
Type of Business	Tires - retreads & shredded	Wood pallets collected for repair & reuse	Donated Food	Food sent to hog farm	Switched from wood pallets to plastic pallets	Reused plastic drums	Reused metal drums	Refillable plastic totes	Shredded paper used as packaging mat's	Reused wooden crates	Scrap wood given to the public	Reuse of cardboard as slip sheets
Recycling assessments:												
Supply Depot	12.50									3.00		
Food warehouse and distribution		156.00	7.73		2,875.60	0.65	0.72					
Manufacturer												
Building manufacturer		208.00	661.80	13,260.00		7.80						
Food manufacturing & distribution		77.50				0.13	0.35					
Manufacturer		68.60						10.80				
Manufacturer			249.05						0.21		12.85	
Food warehouse and distribution												
Packaging and distribution												
Building manufacturer	0.18											
Building manufacturer	6.53											
City offices & waste water plant												
Fast food												
Warehouse and distribution												
Food manufacturing & distribution												
Food warehouse and distribution		371.36	106.71									
Fast food												
Fast food												0.25
Fast food												
Packaging and distribution		16.80										
Transportation company												
Gas station/convenience store												
No on-site assessment:												
Building manufacturer												
Gas station												
Printing company												
Grocery store												
Restaurant												
Collection service												
Elementary schools (2)												
Building manufacturer												
Utility station												
Landscaping maintenance only:												
Industrial Park												
Total Tons	19.21	898.26	1,026.29	13,260.00	2,875.60	8.68	1.07	10.80	0.21	3.00	12.85	0.25

CITY OF LATHROP					
DIVERSION STUDY RESULTS - 1998					
COMMERCIAL/INDUSTRIAL SECTOR					
Type of Business	Number of Employees	Recycling 1998 Total Tons	Source Reduction & Reuse - 1998 Total Tons	Composting & Grasscycling - 1998 Total Tons	Total Diversion - 1998 Total Tons
Recycling assessments:					
Supply Depot	1,200	304.00	15.50	0.00	319.50
Food warehouse and distribution	500	389.00	3,039.33	0.00	3,428.33
Manufacturer	360	12,158.00	1.37	83.85	12,243.22
Building manufacturer	180	207.91	0.00	0.00	207.91
Food manufacturing and distribution	160	135.87	14,137.60	0.00	14,273.47
Manufacturer	160	22.30	77.98	0.00	100.28
Manufacturer	150	153.46	79.40	0.00	232.86
Food warehouse and distribution	130	63.00	249.05	0.00	312.05
Packaging and distribution	100	788.00	0.21	0.00	788.21
Building manufacturer	100	0.00	12.85	0.00	12.85
Building manufacturer	88	685.42	0.18	0.00	685.60
City offices & waste water treatment plant	50	3.10	6.53	124.03	133.66
Fast food	43	12.75	0.00	0.00	12.75
Warehouse and distribution	40	110.21	0.00	0.00	110.21
Food manufacturing and distribution	37	37.85	0.00	0.00	37.85
Food warehouse and distribution	37	25.00	478.07	0.00	503.07
Fast food	32	5.00	0.00	0.00	5.00
Fast food	30	14.02	0.00	0.00	14.02
Fast food	19	8.50	0.00	0.00	8.50
Packaging and distribution	14	0.00	17.05	0.00	17.05
Transportation company	12	15.00	0.00	0.00	15.00
Gas station/convenience store	9	3.14	0.00	0.00	3.14
No on-site assessment: (phone survey)					
Building manufacturer		140.98	0.00	0.00	140.98
Gas station		0.50	0.00	0.00	0.50
Printing company		0.50	0.00	0.00	0.50
Grocery store		6.00	0.00	0.00	6.00
Restaurant		8.00	0.00	0.00	8.00
Collection service		6.70	0.00	0.00	6.70
Elementary schools (2)		4.87	0.00	152.46	157.33
Building manufacturer		144.70	0.00	0.00	144.70
Utility station		1.84	0.00	0.00	1.84
Landscaping maintenance only:					
Industrial Park		0.00	0.00	4.32	4.32
Total Tons Diverted		15,455.42	18,115.12	364.66	33,935.20

CITY OF LATHROP	
NEW BASE YEAR GENERATION STUDY 1998	
CALCULATION DETAILS	
	1998 Tons
Residential Sector Summary	
Residential Disposal (Franchise Hauler Data & San Joaquin County Data)	2,241.30
Self-haul Disposal Allocation	1,639.39
Residential Curbside Recycling Program (Franchised Hauler Data)	1,727.30
AB 2020 Recycling (Dept. of Conservation Data)	81.00
Garage Sales (see calculations)	57.69
Recyclables and Compostables Recovered (see allocation detail below)	193.38
Residential Generation Tonnage	5,940.06
Residential Disposal Tonnage	3,880.69
Residential Diversion Tonnage	2,059.37
Residential Diversion Rate	34.67%
Commercial and Industrial Sector Summary	
Commercial and Industrial Disposal (San Joaquin County data)	2,332.30
Self-haul Disposal Allocation	3,704.37
Non-hazardous Designated Waste Disposal	3,484.32
Commercial and Industrial Recycling (per Diversion Study)	33,935.20
Recyclables and Compostables Recovered (see allocation detail below)	430.42
Commercial and Industrial Generation Tonnage	43,886.61
Commercial and Industrial Disposal Tonnage	9,520.99
Commercial and Industrial Diversion Tonnage	34,365.62
Commercial and Industrial Diversion Rate	78.31%
Diversion Reported by San Joaquin County based on Self-haul	
Recyclables Recovered (San Joaquin County Data)	507.6
Compostables Recovered (San Joaquin County Data)	116.2
Total Recyclable and Compostable Tonnage Recovered	623.8
Allocation of Diversion Reported by San Joaquin County	
Residential sector diversion allocation based on self-haul	31%
Commercial and Industrial sector diversion allocation based on self-haul	69%
Residential sector diversion allocation tonnage	193.38
Commercial and Industrial sector diversion allocation tonnage	430.42
Overall 1998 Jurisdiction Summary	
1998 Disposal Tonnage	13,401.68
1998 Diversion Tonnage	36,424.99
1998 Generation Tonnage	49,826.67
1998 Diversion Rate	73.10%

CITY OF LATHROP	
NEW BASE YEAR GENERATION STUDY 1998	
	Tons
Residential Sector Summary	
Residential Disposal Tonnage	3,880.69
Residential Diversion Tonnage	2,059.37
Residential Generation Tonnage	5,940.06
Residential Diversion Rate	34.67%
Commercial and Industrial Sector Summary	
Commercial and Industrial Disposal Tonnage	9,520.99
Commercial and Industrial Diversion Tonnage	34,365.62
Commercial and Industrial Generation Tonnage	43,886.61
Commercial and Industrial Diversion Rate	78.31%
Overall 1998 Jurisdiction Summary	
1998 Disposal Tonnage	13,401.68
1998 Diversion Tonnage	36,424.99
1998 Generation Tonnage	49,826.67
1998 City of Lathrop Diversion Rate	73.10%

Summary of Diversion Study Methodology

The CIWMB's diversion study guide entitled "Conducting a Diversion Study – A Guide for California Jurisdictions" was followed in all aspects of this project, from designing and conducting a diversion study to submitting a new base year proposal.

Getting the Big Picture

After determining that a new base year was necessary because diversion tonnage in the original base year was underestimated, information gathering began by using the big picture evaluation checklist in the diversion study guide. All information requested and gathered was for calendar year 1998.

- The City's franchised haulers, Delta Container and Stockton Scavenger, were contacted to get a listing of their commercial/industrial recycling customers and the types and quantities of materials collected and recycled.
- Two Lathrop schools were contacted to see if they were recycling, practicing waste prevention or reuse, composting, or grasscycling.
- A confidential document destruction company, Shred-It, was contacted to see if they serviced any Lathrop businesses.
- The Manteca library was visited to review the local newspaper for Lathrop garage sales. An average number of garage sales per week was used to estimate the total for the year.
- Food banks were contacted to see if they were receiving any donated food from Lathrop businesses.

Senior Gleaners

San Joaquin Food Bank

Second Harvest

Alameda County Food Bank

Feed the Children

San Francisco Food Bank

- Diaper services were contacted to see if they had any Lathrop customers.
Tidee-Didee Diaper Service Tiny Tots
- Using the business license listing, 48 construction companies and roofers were contacted to see if they had done any work in Lathrop and if they had recycled any construction materials.
- Rendering companies were contacted to see if they serviced any Lathrop businesses.
Darling International Modesto Talo
- The Dept. of Conservation was contacted to obtain received weights for local recycling programs. Weight information was received on Lathrop's curbside recycling program and on a local buyback center.

- Some recyclers were contacted to see if they collected recyclables from Lathrop businesses.

Sutta Corporation

Universal Service Recycling

Smurfit-Stone

Manteca Recycling

Recycled Fibers Div. of the Newark Group

Weyerhaeuser

Richard Cleek

AMG Resources

- Landscapers and composters were contacted to see if they serviced or received any material from Lathrop businesses.

Grover Landscape Services

Sierra Organics

Cima's Landscape

Earthcare Services, Inc.

Anayi

South Bay Landscaping

that had been recycled, reused, donated, source reduced or composted in 1998. When a diverted material was identified, the business was asked to provide quantities, if possible, as well as the name of the recycler or collector, and contact information such as a name and a phone number.

Not all businesses could provide information on quantities. Many times businesses recycle because it makes economic sense, but they do not keep track of quantities recycled. Regardless of whether they provided quantity information or not, the recycling company or entity that collected their materials was later contacted to confirm recycling activity in 1998 and to obtain or confirm quantities of materials recycled, donated, reused, etc. All information gathered was entered on a data collection form to document materials recycled, source reduction and reuse activities, recyclers, contacts, and quantities. See Attachment B for a sample data collection form.

Of course, not all waste reduction and recycling efforts could be quantified. Some recyclers could not be bothered to research information for 1998. Many surveyed businesses had difficulty quantifying waste reduction efforts. They could tell you they practiced a certain waste reduction activity, such as using e-mail instead of paper memos, but they could not quantify this effort. They also did not seem inclined to spend a lot of time figuring it out.

Every effort was made to prevent double counting. For example, since San Joaquin County had already given Lathrop a diversion allocation for compostables recovered, all information gathered from gardeners and landscapers who were bringing materials to San Joaquin County transfer stations or landfills was excluded. In addition, since Dept. of Conservation data for the Lathrop Recycling Center was included in the diversion study, anyone bringing recyclables to this center was excluded.

Survey Results

This process of designing the diversion study, making business contacts and setting up appointments, conducting waste reduction and recycling surveys, gathering data, verifying data, and quantifying and summarizing diversion efforts, took approximately 7 months.

There were 27 businesses included in the diversion study. This represents 31% of Lathrop businesses. As planned, on-site waste reduction and recycling surveys were performed at 19 Lathrop businesses and the military supply depot. Diversion data for an additional eight businesses not receiving on-site assessments was gathered from franchised hauler tonnage reports, from data collected from private recyclers, and from phone interviews.

The diversion study included these 27 businesses, the military supply depot, as well as one business park (landscaping only), two local schools, a utility station, and the City government offices and waste water treatment plant. The total amount of diverted tonnage was 33,935.2 tons. See the Diversion Study results for the commercial and industrial sector for details on recycling, source reduction, reuse, composting, and grasscycling activities at Lathrop businesses. The names of the participants in the diversion study have been excluded in an attempt to keep their information confidential. Only a general description of the business is provided.

- The City of Lathrop was asked to provide information about any recycling, waste prevention, reuse, composting, and grasscycling activities. They were also asked to provide information on the treatment of sewage sludge at the waste water treatment facility.

Identifying Non-residential Sectors to Survey

The City of Lathrop is a small jurisdiction with approximately 9,275 residents and approximately 88 businesses. Due to Lathrop's small size and the small number of businesses, it was decided that the City's largest businesses would be targeted for on-site waste reduction and recycling surveys. According to the diversion study guide, statistical analysis shows that the larger companies are responsible for the majority of a jurisdiction's existing diversion. It is found that 80% of the divertable materials are often produced by only 20 percent of the total number of businesses. With this in mind, having at least 18 to 20 of Lathrop's largest businesses in the diversion study should account for much of the divertable materials.

To assist in identifying Lathrop businesses for inclusion in the diversion study, the City of Lathrop provided a business license listing. This listing included the business name, address, phone number, and owner's name, but no listing for the number of employees. The City of Lathrop's business license listing was reviewed and all Lathrop businesses were identified. Home based businesses located in Lathrop were excluded, as well as all companies doing business in the City, but located outside of Lathrop. With the assistance of City staff, approximately thirty of Lathrop's largest businesses were identified. This is greater than the targeted 20%, but it was assumed that not all businesses contacted would want to participate.

In addition to Lathrop's largest businesses, two schools, the City government offices and waste water treatment plant, a military supply depot, and two business parks would also be surveyed.

Survey Method

The targeted businesses were contacted via telephone and asked to participate in the diversion study. It was found that most, but not all, businesses were interested in participating. Approximately five businesses did not want to participate. Another five were not included in the study because they were not recycling anything. Confidentiality was an issue for some businesses, especially those with competitors in the area. They were assured their name would not be used in the diversion study.

If a business was interested in participating, an appointment was set up for the waste reduction and recycling survey. Prior to the appointment, the business was sent a fax explaining the purpose of the visit along with a recycling form and a waste prevention form listing the types of materials that could be diverted and examples of waste reduction activities. See Attachment A for a sample of this form. The business waste prevention and recycling on-site survey form provided in the diversion study guide was tested and found to be too long. The survey form was modified and condensed.

Once at the place of business, the purpose of the study was again explained. Then waste reduction and recycling efforts for 1998 were discussed. Christine Vitalis, consultant, and Lynn Brietenbucher, the City of Lathrop's Management Analyst were both present at all on-site surveys. The recycling form and waste prevention form were used as guides to discuss materials